

ASUS Laptop Price Prediction Dataset Documentation

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Part I

Documentation of the Dataset

1 Dataset

1.1 Title

ASUS Laptop Pricing Dataset is updated February 09, 2018 by REDOAN-UR-RAHMAN & ANIK CHOWDHURY

1.2 Sources

Datas are collected from these websites.

1. Computer Source Bangladesh [?]
2. Daffodil Computers Ltd [?]
3. Global Band Limited [?]
4. Ryans Computers [?]

1.3 Number of Instances

The dataset contains a total of 100 cases.

1.4 Number of Attributes

There are 9 attributes in each case of the dataset.

1.5 Attribute Information

- **cores**- Number of cores in the processor of the laptop.
- **threads**- Number of threads in the processor of the laptop.
- **speed**- Clock speed of the processor in MHz.
- **ram**- Random Access Memory size in GB.
- **ddr**- Double data rate type of the RAM.
- **gpu**- Memory size of Graphics Processing Unit used by the laptop in MB.
- **hdd**- Hard Disk Drive Size in GB.
- **ssd**- Solid State Drive Size in GB.
- **cost**- Price of the Laptop. (Target Attribute)

1.6 Missing Attribute Values

None.

1.7 Attribute's Data Types

Table 1: Attribute with their data type

Attribute Name	Data Type
cores	int64
threads	int64
speed	int64
ram	int64
ddr	int64
gpu	int64
hdd	int64
ssd	int64
cost	int64

1.8 Summary Statistics

Table 2: DataSet Summary Statistics

	cores	threads	speed	ram	ddr	gpu	hdd	ssd	cost
count	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
mean	2.6	4.8	2504.5	10.3	3.8	2288.0	835.1	190.8	80439.0
std	0.9	1.9	562.3	10.9	0.4	2207.2	546.1	271.4	59964.4
min	2.0	2.0	1100.0	2.0	3.0	0.0	0.0	0.0	21600.0
25%	2.0	4.0	2300.0	4.0	4.0	0.0	500.0	0.0	43000.0
50%	2.0	4.0	2500.0	8.0	4.0	2000.0	1000.0	0.0	69750.0
75%	4.0	4.0	2825.0	8.0	4.0	4000.0	1000.0	256.0	91000.0
max	4.0	8.0	3800.0	64.0	4.0	8000.0	2000.0	1000.0	398500.0

1.9 Correlation Of the Features

Table 3: Correlation Matrix

	cores	threads	speed	ram	ddr	gpu	hdd	ssd
cores	1.00	0.84	0.23	0.51	0.23	0.76	0.32	0.19
threads	0.84	1.00	0.42	0.59	0.41	0.77	0.31	0.32
speed	0.23	0.42	1.00	0.47	0.63	0.55	-0.11	0.59
ram	0.51	0.59	0.47	1.00	0.22	0.73	-0.11	0.65
ddr	0.23	0.41	0.63	0.22	1.00	0.42	0.12	0.26
gpu	0.76	0.77	0.55	0.73	0.42	1.00	0.09	0.49
hdd	0.32	0.31	-0.11	-0.11	0.12	0.09	1.00	-0.59
ssd	0.19	0.32	0.59	0.65	0.26	0.49	-0.59	1.00